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| <b>Intermat</b>         | ) | <b>Departmental</b>               |
| <b>York County</b>      | ) | <b>Findings of Fact and Order</b> |
| <b>Biddeford, Maine</b> | ) | <b>Air Emission License</b>       |
| <b>A-302-71-H-M</b>     | ) | <b>Amendment #1</b>               |

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

## **I. REGISTRATION**

Intermat of Biddeford, Maine was issued Air Emission License A-302-71-G-R on June 19, 2000 permitting operations associated with their carbon composite manufacturing facility.

Intermat has requested a minor revision to incorporate the addition of a Grieve Model SA-550 oven. This equipment has an operating temperature range from ambient to 550°F and a process work zone of 50" long x 30" deep x 54" high. Intermat proposes to utilize this oven to stage phenolic resin-carbon fiber prepreg mixture and to post cure carbon-phenolic hot pressed or autoclaved components.

The controlling factor for the quantity of resin-fiber mixture that can be staged is the requirement to limit the solvent loading to the oven to maintain a non-explosive atmosphere in both the oven chamber and the exhaust line. The calculated maximum weight of phenolic resin that can be safely processed is 13.0 lbs.

The exhaust from this oven is to be vented to the existing graphitization incinerator which has a capacity of 10.2 lb/hr. Intermat has performed laboratory trials to determine the actual weight loss characteristics of pure resin and phenolic resin-carbon fiber mix over the operating temperature range of 180 to 250°F and found that the exhaust weight is less than the capacity of the incinerator, therefore allowing for this proposed operation of the Grieve Oven with exhaust venting to the existing graphitization incinerator.

## **ORDER**

The Department hereby grants Air Emission License A-302-71-H-M subject to the conditions found in Air Emission License A-302-71-G-R and in the following conditions:

Intermat  
York County  
Biddeford, Maine  
A-302-71-H-M

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**Departmental  
Findings of Fact and Order  
Air Emission License  
Amendment #1**

**The following shall replace condition (17)(D) of license A-302-71-G-R:**

- (17) D. Graphitizers
1. An incinerator shall be maintained and operated to control the combined emissions of the two (2) graphitizers and the Grieve Oven,  
  
.....
  3. The temperature of the incinerator shall be recorded at a minimum of once per hour when either graphitizer or the oven is in operation.

**The following are new conditions:**

- (21) Intermat shall maintain a log documenting the loading weight of uncured phenolic resin to the Grieve Oven for each load.
- (22) This amendment shall expire concurrently with Air Emission License A-302-71-G-R.

DONE AND DATED IN AUGUSTA, MAINE THIS            DAY OF            2001.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: \_\_\_\_\_  
MARTHA G. KIRKPATRICK, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: December 21, 2000

Date of application acceptance: December 26, 2000

Date filed with the Board of Environmental Protection: \_\_\_\_\_

This Order prepared by Stephanie C. Toothaker, Bureau of Air Quality